Check other sources for finding information within this CTS850 SDH/PDH Test Set user manual: Navigation of Manual table on page 1—4; Menu Maps beginning on page A—1; and, Table of Contents located in the front of the manual. 2 Mb/s, (RX) 3—147; (TX) 3—107 2 Mb/s 2 MHz connection, 3—77, G—7 34 Mb/s, (RX) 3—147; (TX) 3—107 45 Mb/s map/demap, 2—33 64k RX settings, 3—148 TX settings, 3—108	Alternate, Pointer Direction, 3 195 Analysis Configuration (Rx), 3 133 Anomaly, definition, 2 29 Asynchronous, 2 27 AU Under Test, specifying TX Settings, 3 79 RX Settings, 3 123 Automatic Protection Switching (APS), 3 217 APS Mode, 3 217 K1 Byte, 3 218 K2 Byte 3 222 AUTOSCAN, 2 16, 3 66
140 Mb/s, (RX) 3 147; (TX) 3 107	b
110 1710/3, (1021) 0 117, (171) 0 107	Basic Test, 3 1
A accessories optional, 1 3	Fault Tolerance Checking, 3 9 Jitter Testing, 3 23 Network Continuity Checking, 3 2 Performance Monitoring, 3 19
standard, 1 2 accessory pouch, installing, 1 4 Active Channel Selection, 3 128 Added Tx Clock, Overhead Add/	Transmission Signal Quality Testing, 3 3 Video Timing Quality Testing, 3 31
Drop Port, G 4 Added Tx Data, Overhead Add/ Drop Port, G 4 adding a PDH signal, 3 87 adjusting pointers, 3 195 Alarm, Fail If condition, 3 48	Baud Rate REMOTE CONTROL, 3 268 Beeper, MISC SETTINGS, 3 263 buttons AUTOSCAN, 3 66
Alarms	CLEAR HISTORY, 2 4, 3 67

HELP, 2 14

menu, 2 12

INSERT ERROR, 2 2

ON/STBY, 1 13, 1 14

Alarms

definition, 2 29

setting, 3 190

PDH Defect & Anomalies,

Inserting, 3 192

POINTER ACTION, 3 195	Day, Test Duration, 3 35
PRINT, 3 265	Decrement, Pointer Direction,
START/STOP, 2 2, 3 37	3 195
	default settings, C 1 Defects & Anomalies, 3 185
C	Defects & Anomalies, 3 183 Defect, definition, 2 29
	disk drive, 2 25
CAS and Voice, RX, 3 156	disk file names, reading, 2 26
CLEAR HISTORY button, 2 5	disk file types, 2 25
Cleaning instructions, K 1	Display Brightness, MISC
CMI, Transmit Line Code, 3 112	SETTINGS, 3 262
connecting signals, 2 10	displaying results, 3 229
connectors	displaying results, or 220
connecting electrical signals,	_
2 16	E
connecting optical signals, 2 16	
front panel, 2 2	EDIT BYTE
rear panel, 2 4	K1 Full Byte, 3 218
Continuous, Test Duration, 3 33	K2 Full Byte, 3 222
controls	editing
front panel, 2 2	binary numbers, 2 21
rear panel 2 4, G 1	bytes, 2 21
cooling requirements, D 32	decimal numbers, 2 19
Coupled, Tx/Rx Settings	text, 2 22
RX, 3 129	electrical connections, 2 2, 2 4
TX, 3 87	entering text, 2 22
	Error Analysis, 3 229
D	G.821 Results, 3 229
	G.826 Results, 3 229 M.2100 Results, 3 229
Data Communication Channel	M.2100 Results, 3 229 M.2101.1 Results, 3 229
(DCC) 3 99	Error Count, Fail If condition, 3 48
DCC, G 4	Errors, Inserting, 3 185
adding, 3 99	error messages, B 3
dropping, 3 142	error rate, 3 188
External Add, 3 114	maximum, 3 188
D1 D3 data bytes, 3 100	Error Ratio, Fail If condition, 3 48
D4 D12 data bytes, 3 100	Error type set to, ERRORS &
F1 data bytes, 3 100	ALARMS, 3 185
F2 data bytes 3 101	ALAIWID, J 10J

date, setting, 3 264

Errored Seconds, Fail If condition, 3 48	Н
example disk contents, F 1	Handset Interface, G 8
external clock input (2 Mb or 2	Hardware Revision, INSTR CON-
MHz), G 7	FIG, 3 261
external monitor connector, G 1	HELP button, 2 14
	Help dialog box, 2 14
F	History graphs
•	display, 3 248
Fail If conditions, Pass/Fail Test,	panning, 3 251
3 48	zooming, 2 250 History Resolution, 3 36, 3 248
Failure, definition, 2 29	high (1 second), 3 36, 3 248
Failure, Fail If condition, 3 49	normal (1 min.), 3 36, 3 248
Failures,	low (15 min.), 3 36, 3 248
TX, 3 191	Hour, Test Duration, 3 33
FAS Error Threshold, 3 133	,
files, disk, 2 23 Firmware Revision, INSTR CON-	•
FIG. 3 261	I
Flow Control, PRINTER SETUP,	icons, 2 8
3 265	autoscan, meaning, 3 66
Frequency Offset	display, meaning, 2 8
Pointer/Timing Mode, 3 195	Illegal (Max +1), Pointer Value Set
POINTERS & TIMING, 3 195	to, 3 195
front panel controls, 2 2	Illegal: Max +1, Pointer Value Set
fuse, 1 12	to, 3 195
	Increment, Pointer Direction,
G	3 195
G	Independent, Tx/Rx Settings
GPIB connector, G 3	RX, 3 121
GPIB parameters, 3 269	TX, 3 73 Initialization Time, POINTERS &
GPIB Primary Address, REMOTE	TIMING, 3 195
CONTROL, 3 259	installation, 1 7
GPIB programming. See Program-	instrument setups
mer Manual	creating, 3 41

recalling, 3 42 Interface Module, INSTR CON-	M
FIG, 3 261	maximum error rates
ITU T standards, Glossary section	PDH signals, 3 188
v	SDH signals, 3 188
	TU mappings, 3 188
J	menu pages, 2 9
I1 noth troop byte 2 07	menus
J1 path trace byte, 3 97	maps, A 1
jitter calibration, 3 183	RECEIVE, 2 11
example of results, 3 169	RESULTS, 2 11
exporting results, 3 169	selecting, 2 12
generation, turn on, 3 170	TEST SETUPS, 2 11
frequency & amplitude, 3 173	TRANSMIT, 2 11
high pass filters, 3 178	UTILITY, 2 11
hit threshold, 3 180	Model, INSTR CONFIG, 3 261
input filter, select, 3 177	monitoring performance, 3 18
inputs & outputs, G 9	multiplexing
input source, select, 3 176	asynch, J 6
masks, 3 162	SDH, definition, 2 29
mode, select 3 176	
output, selecting, 3 172	N
pointer hit threshold, 3 180	14
printing results, 3 169	Nx64, 3 107, 3 147
work with test setups, 3 159	Navigation of manual, 1 4
jitter testing, 3 23	
output, 3 164	0
pointer, 3 164	0
tolerance, 3 23	Offset Mode, POINTERS & TIM-
transfer, 3 28	ING, 3 195
video timing , 3 31	1+1, APS COMMANDS, 3 217
	1:N, APS COMMANDS, 3 217
K	optical connections, 2 15
N	optical port connections, changing,
K1 Full Byte, APS, 3 218	H 1
K2 Full Byte, APS, 3 222	Optical power received, 3 132
•	Options, INSTR CONFIG, 3 261

overhead bytes	Peak voltage, received, 3 132
editing, 3 91	performance monitoring, 3 19
viewing, 3 139	
overhead PRBS test, 3 105	pin assignments
	Overhead Add/Drop Port, G 4
D	RS-232, G 3
P	VGA video output, G 1
nackaging for shipment I 1	Plesiochronous, 2 27
packaging for shipment, I 1	POINTER ACTION button, 3 195
pages, selecting, 2 13	Pointer ss Bit mismatch, 3 133
parameters	POINTERS, setting, 3 195
changing, 2 17	single pointer movements, 3 195
Parity	burst pointer movements, 3 195
PRINTER SETUP, 3 265	continuous pointer movement,
REMOTE CONTROL, 3 268 Pass/Fail test 3 52	3 195
Payload, 3 84	changing timing (alternative to
•	pointer movements), 3 203
drop, 3 128 framing (PDH),	pointer sequences generating,
setting, 3 152	3 206
specifying, 3 114	pointer sequences with tributary
mapping/demapping	offset, 3 216
RX PDH, 3 138	Pointers, MAIN RESULTS, 3 238
TX PDH, 3 87	power requirements, 1 13
specifying,	PRBS, insert in overhead bytes,
RX, 3 126	3 105
TX, 3 84	Print, 3 265
PDH, definition, 2 28	PRINT CONTROL dialog box,
drop, 3 138	3 265
Mapping signal, 3 87	PRINT button, 3 265
Demapping signal, 3 135	Print Main Results, PRINT CON-
inserting, defect & anomaly,	TROL dialog box, 3 265
3 192	printer setup, 3 265
path analysis, 3 133	Printer Type, PRINTER SETUP,
payload frequency	3 265
(Signal Status RX), 3 130	printers
RX parameters, 3 147	RS 232 parameters, 3 265
TX parameters, 3 107	supported, 3 265
Dropping signal, 3 138	printing results, 3 265

R

R	settings, default, C 1
Rear panel connectors, 2 4, G 1 Calibration Signal Output, G 4 External Clock Input (2 Mb/s or 2 MHz), G 7 GPIB Port, G 3 Handset Interface, G 8 Jitter Inputs & Outputs, G 9 Overhead Add/Drop Port, G 4 RS 232 Port, G 3 VGA Video Output, G 2 RECEIVE button, 2 11 RECEIVE SETTINGS SDH, 3 119 PDH 3 147 results, displaying, 3 229 RESULTS, button, 2 11 Results, viewing, 3 229 Jitter & Wander, 3 239 Error Analysis, 3 240 Performance Analysis, 3 242 Round Trip Delay Offset (Signal Status RX), 3 130 RS-232 connector, G 3 RS-232 parameters, 3 268	Signal labels, 3 104 Signal status
	-
S S1 byte, editing, 3 92 SDH output, setting, 3 83 SDH multiplexing hierarchy, 2 29 Serial Number, INSTR CONFIG, 3 261 SET DATE, MISC SETTINGS, 3 264 SET TIME, MISC SETTINGS, 3 264 Set Value, Pointer Control, 3 195 Set with New Data Flag, POINTERS & TIMING, 3 195	Technology, telecom, J 1 Asynch multiplexing, J 6 Basic SDH signal, J 1 Error Counts, J 13 G.826, M.2101.1, M.2100, G.821 Analysis, J 10 Jitter & Wander Tutorial, J 16 PDH Basics, J 2 PDH Multiplexing, J 9 Principles & Metrics of Jitter & Wander, J 20 SDH Multiplexing, 2 29 test duration, setting, 3 33

Index 6

Test Pattern, PRBS
PDH, RX, 3 153
PDH, TX, 3 116
SDH, RX, 3 127
SDH, TX, 3 85
test results, displaying, 3 229

Transmit settings, SDH, 3 71 PDH, 3 107 Tutorial, 2 35

TEST SETUPS button, 2 11 working with, 3 41 test state indicator, 2 7 Through Mode, 3 75 Timing, changing, 3 195 Trace Settings, 3 102 Trace mismatch, 3 133 TRANSMIT button, 2 11

level (electrical), 3 78

line code (PDH), 3 112

V

VC4 4c, 3 80, 3 81 VGA connector, G 1 video timing quality testing, 3 30 View Help, Help dialog box, 2 12

W

wander, 3 159
examples, 3 159
generate, 3 159
measure, 2 MHz clock output
from NE, 3 159